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SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Cohen, Philip Alessi, Dario Cross, Darren
- (ii) TITLE OF INVENTION: CONTROL OF PROTEIN SYNTHESIS, AND SCREENING METHOD FOR AGENTS
- (iii) NUMBER OF SEQUENCES: 58
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Braman & Rogalskyj, LLP
 - (B) STREET: P.O. Box 352
 - (C) CITY: Canandaiqua
 - (D) STATE: New York
 - (E) COUNTRY: USA
 - (F) ZIP: 14424-0352
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 09/845,667
 - (B) FILING DATE: 30-APR-2001
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 09/091,763
 - (B) FILING DATE: 19-JUN-1998
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: PCT/GB96/03186
 - (B) FILING DATE: 20-DEC-1996
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: GB 9526083.2
 - (B) FILING DATE: 20-DEC-1995
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: GB 9610272.8

- (B) FILING DATE: 16-MAY-1996
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: GB 9615066.9
 - (B) FILING DATE: 18-JUL-1996
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Braman, Susan J
 - (B) REGISTRATION NUMBER: 34,103
 - (C) REFERENCE/DOCKET NUMBER: 002.00041
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 716-393-3002
 - (B) TELEFAX: 716-393-3001
- (2) INFORMATION FOR SEQ ID NO: 1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
- Gly Arg Pro Arg Thr Ser Ser Phe Ala Glu Gly
 1 5 10
- (2) INFORMATION FOR SEQ ID NO: 2:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Arg Pro Arg Ala Ala Thr Cys

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5
1
(2) INFORMATION FOR SEQ ID NO: 3:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 12 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: peptide
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
Phe Pro Gln Phe Ser Tyr Ser Ala Ser Ser Thr Ala
(2) INFORMATION FOR SEQ ID NO: 4:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 7 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: peptide
    (ix) FEATURE:
          (A) NAME/KEY: Peptide
          (B) LOCATION: 2
          (D) OTHER INFORMATION:/product= "OTHER"
                                 /label= Xaa
                                 /note= "CAN BE ANY AMINO ACID"
    (ix) FEATURE:
          (A) NAME/KEY: Peptide
          (B) LOCATION:group(4, 5)
          (D) OTHER INFORMATION:/product= "OTHER"
                                 /label= Xaa
                                 /note= "CAN BE ANY AMINO ACID,
                                       INCLUDING SMALL AMINO
                                       ACIDS, OTHER THAN GLYCINE"
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(ix) FEATURE:

(A) NAME/KEY: Peptide

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(B) LOCATION:7
           (D) OTHER INFORMATION:/product= "OTHER"
                                 /label= Xaa
                                 /note= "Xaa IS A LARGE
                                     HYDROPHOBIC RESIDUE SUCH
                                     AS LEU OR PHE"
    (ix) FEATURE:
           (A) NAME/KEY: Peptide
           (B) LOCATION:6
           (D) OTHER INFORMATION:/product= "OTHER"
                                 /label= Xaa
                                 /note= "Xaa MAY BE SERINE OR
                                     THREONINE"
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
Arg Xaa Arg Xaa Xaa Xaa
(2) INFORMATION FOR SEQ ID NO: 5:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 7 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: peptide
    (ix) FEATURE:
          (A) NAME/KEY: Peptide
          (B) LOCATION:group(2, 4, 5)
          (D) OTHER INFORMATION:/product= "OTHER"
                                /label= Xaa
                                /note= "Xaa IS ANY AMINO ACID"
   (ix) FEATURE:
          (A) NAME/KEY: Peptide
          (B) LOCATION:7
         (D) OTHER INFORMATION:/product= "OTHER"
                                /label= Xaa
                                /note= "Xaa IS A LARGE
                                    HYDROPHOBIC RESIDUE"
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

Arg Xaa Arg Xaa Xaa Ser Xaa 1 5

- (2) INFORMATION FOR SEQ ID NO: 6:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Arg Pro Arg Ala Ala Thr Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 7:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

Arg Ser Arg Lys Glu Ser Tyr
1 5

- (2) INFORMATION FOR SEQ ID NO: 8:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

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(ix) FEATURE:
           (A) NAME/KEY: Peptide
           (B) LOCATION:group(2, 4, 5)
           (D) OTHER INFORMATION:/product= "OTHER"
                                  /label= Xaa
                                  /note= "Xaa CAN BE ANY AMINO
     (ix) FEATURE:
           (A) NAME/KEY: Peptide
           (B) LOCATION:7
           (D) OTHER INFORMATION:/product= "OTHER"
                                 /label= Xaa
                                 /note= "Xaa IS A LARGE
                                     HYDROPHOBIC RESIDUE"
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
Arg Xaa Arg Xaa Xaa Ser Xaa
(2) INFORMATION FOR SEQ ID NO: 9:
     (i) SEQUENCE CHARACTERISTICS:
           (A) LENGTH: 7 amino acids
           (B) TYPE: amino acid
           (C) STRANDEDNESS: single
           (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: peptide
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
Arg Pro Arg Thr Ser Ser Phe
1
                5
(2) INFORMATION FOR SEQ ID NO: 10:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 7 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
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(D) TOPOLOGY: linear
     (ii) MOLECULE TYPE: peptide
     (ix) FEATURE:
           (A) NAME/KEY: Peptide
           (B) LOCATION:group(4, 5)
           (D) OTHER INFORMATION:/product= "OTHER"
                                  /label= Xaa
                                  /note= "Xaa IS ANY SMALL AMINO
                                      ACID EXCEPT GLYCINE"
     (ix) FEATURE:
           (A) NAME/KEY: Peptide
           (B) LOCATION:7
           (D) OTHER INFORMATION:/product= "OTHER"
                                 /label= Xaa
                                 /note= "Xaa IS ANY LARGE
                                     HYDROPHOBIC RESIDUE"
     (ix) FEATURE:
           (A) NAME/KEY: Peptide
           (B) LOCATION:2
           (D) OTHER INFORMATION:/product= "OTHER"
                                 /label= Xaa
                                 /note= "Xaa IS ANY AMINO ACID"
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
Arg Xaa Arg Xaa Xaa Ser Xaa
1
                5
(2) INFORMATION FOR SEQ ID NO: 11:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 6 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: peptide
    (ix) FEATURE:
          (A) NAME/KEY: Peptide
          (B) LOCATION:group(2, 3)
          (D) OTHER INFORMATION:/product= "OTHER"
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- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION: group (4, 6)
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION:5
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

Phe Xaa Xaa Xaa Xaa Xaa 1

- (2) INFORMATION FOR SEQ ID NO: 12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

His Phe Pro Gln Phe Ser Tyr
1 5

- (2) INFORMATION FOR SEQ ID NO: 13:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

Arg Pro Arg Ala Ala Ser Phe

- (2) INFORMATION FOR SEQ ID NO: 14:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

Arg Pro Arg Thr Ser Ser Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 15:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

Arg Pro Arg Gly Gly Ser Phe 1 5

(2) INFORMATION FOR SEQ ID NO: 16:

10

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: peptide (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16: Arg Pro Arg Ala Gly Ser Phe 1 (2) INFORMATION FOR SEQ ID NO: 17: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: peptide (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17: Arg Pro Arg Gly Ala Ser Phe 5 (2) INFORMATION FOR SEQ ID NO: 18: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: peptide (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18: Lys Lys Lys Asn Arg Thr Leu Ser Val Ala

5

- (2) INFORMATION FOR SEQ ID NO: 19:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

Lys Lys Arg Asn Arg Thr Leu Ser Val Ala 1 5 10

- (2) INFORMATION FOR SEQ ID NO: 20:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

Lys Lys Arg Asn Arg Thr Leu Thr Val

- (2) INFORMATION FOR SEQ ID NO: 21:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

Arg Pro Arg Ala Ala Thr Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 22:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

Gly Arg Ala Arg Thr Ser Ser Phe Ala 1 5

- (2) INFORMATION FOR SEQ ID NO: 23:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

Lys Lys Arg Asn Lys Thr Leu Ser Val Ala 1 5 10

- (2) INFORMATION FOR SEQ ID NO: 24:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

Lys Lys Arg Asn Arg Thr Leu Ser Val Ala
1 5 10

- (2) INFORMATION FOR SEQ ID NO: 25:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

Glu Phe Met Pro Met Glu 1 5

- (2) INFORMATION FOR SEQ ID NO: 26:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu 1 5 10

- (2) INFORMATION FOR SEQ ID NO: 27:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 55 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

GCGGAGATCT GCCACCATGG AGTTCATGCC CATGGAGTCA GGGCGGCCCA GAACC 55

(2)	INFORMATION FOR SEQ ID NO: 28:												
	(i)	(A) (B) (C)	LENGT TYPE: STRAN	H: 2 nuc IDEDN	CTERIS 7 base leic a ESS: s linea	pair cid ingle	S						
	(ii)	MOLEC	CULE T	YPE:	cDNA								
	(xi)	SEQUE	ENCE D	ESCR	IPTION	: SEQ	ID N	10: 2	8:				
GCG	GTCCG	GA ACA	TAGTC	CA G	CACCAG								27
(2)	INFO	RMATIC	N FOR	SEQ	ID NO	: 29:							
	(i)	(A) (B) (C)	LENGT: TYPE: STRAN	H: 19 amir DEDNE	CTERIST 5 amind no acid ESS: si linear	ació l lngle	ls						
					peptio								
					PTION:								
Arg 1	Pro :	His Ph	e Pro 5	Gln	Phe Se	r Tyr	Ser 10	Ala	Ser	Gly	Thr	Ala 15	
(2)	INFO	RMATIO	N FOR	SEQ	ID NO:	30:							
	(i)	(A) (B) (C)	LENGTH TYPE : STRANI	H: 16 amin DEDNE	TERIST amino o acid SS: si linear	acid	s						
	(ii)	MOLEC	ULE TY	PE:	peptid	е							
	(xi)	SEQUE	NCE DE	ESCRI	PTION:	SEQ	ID NO	D: 30	0:				
Met 1	Thr S	Ser Ala	a Leu 5	Ala	Thr Me	t Arg	Val 10	Asp	Tyr	Glu	Gln	Ile 15	Lys

- (2) INFORMATION FOR SEQ ID NO: 31:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 13 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

Arg Pro Arg His Phe Pro Gln Phe Ser Tyr Ser Ala Ser 1 5 10

- (2) INFORMATION FOR SEQ ID NO: 32:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
5

- (2) INFORMATION FOR SEQ ID NO: 33:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

Thr Thr Tyr Ala Asp Phe Ile Ala Ser Gly Arg Thr Gly Arg Asm 1 5 10 15

Ala Ile His Asp 20

- (2) INFORMATION FOR SEQ ID NO: 34:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

Arg Pro Arg Thr Ser Ser Phe Ala 1 5

- (2) INFORMATION FOR SEQ ID NO: 35:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

Gly Arg Pro Arg Thr Ser Ser Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 36:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:

Arg Pro Arg Thr Ser Thr Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 37:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37:

Arg Pro Arg Thr Ser Ala Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 38:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 38:

Pro Arg Thr Ser Ser Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 39:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 39:

Arg Pro Arg Thr Ser Ser 1 5

- (2) INFORMATION FOR SEQ ID NO: 40:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:

Lys Pro Arg Thr Ser Ser Phe 5

- (2) INFORMATION FOR SEQ ID NO: 41:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

Arg Pro Lys Thr Ser Ser Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 42:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

Arg Pro Arg Thr Ser Ser Leu
1 5

- (2) INFORMATION FOR SEQ ID NO: 43:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 43:

Arg Pro Arg Thr Ser Ser Val

- (2) INFORMATION FOR SEQ ID NO: 44:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 44:

Arg Pro Arg Thr Ser Ser Ala

- (2) INFORMATION FOR SEQ ID NO: 45:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 45:

Arg Pro Arg Thr Ser Ser Lys
1 5

- (2) INFORMATION FOR SEQ ID NO: 46:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 46:

Arg Pro Arg Thr Ser Ser Glu
1 5

- (2) INFORMATION FOR SEQ ID NO: 47:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 47:

Arg Pro Arg Thr Ser Ser Pro Ala
1 5

- (2) INFORMATION FOR SEQ ID NO: 48:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 48:

Arg Pro Arg Ala Ser Ser Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 49:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 49:

Arg Pro Arg Val Ser Ser Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 50:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 50:

Arg Pro Arg Gly Ser Ser Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 51:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 51:

Arg Pro Arg Asn Ser Ser Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 52:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 52:

Arg Pro Arg Thr Ala Ser Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 53:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 53:

Arg Pro Arg Thr Gly Ser Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 54:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 54:

Arg Pro Arg Thr Val Ser Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 55:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 55:

Arg Pro Arg Thr Asn Ser Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 56:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 56:

Arg Pro Arg Ala Ala Thr Phe 1 5

- (2) INFORMATION FOR SEQ ID NO: 57:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:

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Lys Lys Leu Asn Arg Thr Leu Ser Val Ala
  (2) INFORMATION FOR SEQ ID NO: 58:
      (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 7 amino acids
            (B) TYPE: amino acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear
     (ii) MOLECULE TYPE: peptide
     (ix) FEATURE:
           (A) NAME/KEY: Peptide
           (B) LOCATION: group (2, 4, 5)
           (D) OTHER INFORMATION:/product= "OTHER"
                                  /label= Xaa
                                  /note= "CAN BE ANY AMINO ACID"
     (ix) FEATURE:
           (A) NAME/KEY: Peptide
           (B) LOCATION:7
           (D) OTHER INFORMATION:/product= "OTHER"
                                 /label= Xaa
                                 /note= "Xaa IS A LARGE
                                     HYDROPHOBIC RESIDUE"
    (ix) FEATURE:
          (A) NAME/KEY: Peptide
           (B) LOCATION:6
          (D) OTHER INFORMATION:/product= "OTHER"
                                 /label= Xaa
                                 /note= "Xaa MAY BE SERINE OR
                                     THREONINE"
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:
Arg Xaa Arg Xaa Xaa Xaa
```